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# भारत का राजपत्र

## The Gazette of India

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No. 47] NEW DELHI, SATURDAY, NOVEMBER 22, 1986 (AGRAHAYANA 1, 1908)

(इस भाग में भिन्न पृष्ठ संख्या दो जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस  
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Calcutta, the 22nd November 1986

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

15th October, 1986

746/Cal/86. Ranjit Chaliha. A bulk carrying trailer, particularly suitable for transporting green tea leaves.

747/Cal/86. Knurr Mechanik Fur Die Elektronik AG. Workplace Furniture.

748/Cal/86. Pyreco INC. A process for converting a biomass input into an output gas. (10th January, 1983) Canada.

[Divisional date 31st March, 1983].

749/Cal/86. Pyreco INC. A process for converting a biomass input to an output gas. (10th January, 1983) Canada.

[Divisional date 31st March, 1983].

750/Cal/86. Centro Sperimentale Metallurgico S.p.A. High solids content coal-tar mixture.

751/Cal/86. Schweissindustrie Oerlikon Buhle AG. Process for submerged arc welding by means of multiple electrode welding.

16th October, 1986

752/Cal/86. Siemens Aktiengesellschaft. A plug connector assembly.

753/Cal/86. Louis Worms. Hydraulic Turbine.

754/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to improved delay circuit for inverter switches.

755/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to windshield insertion system for a vehicle on a moving conveyor apparatus.

756/Cal/86. Indian Jute Industries' Research Association. A process of manufacturing the fire-ret-mildew resistant carpet backing fabric (secondary) by treatment at the hatching stage.

757/Cal/86. Ashok Pandey. New type of "Hawai Chappal". 31. 54.

17th October, 1986

758/Cal/86. Gosudarstvenny Nauchno-Issledovatel'sky Energetichesky Institut Imeni G. M. Krzhizhanovskogo. Device for directional protection of power transmission lines with carrier-current relaying.

759/Cal/86. Gosudarstvenny Nauchno-Issledovatel'sky Energetichesky Institut Imeni G. M. Krzhizhanovskogo. Method of identifying externally induced voltages in a power transmission line with horizontal arrangement of phase conductors, and apparatus for performing this method.

760/Cal/86. Sarveswara Somayajulu Yechury. Device for scraping kernels of coconuts.

20th October, 1986

761/Cal/86. Voest-Alpine Aktiengesellschaft. Process for controlling the movement of an universally swivellable cutting arm of a partial cut cutting machine as well as apparatus for performing this process.

762/Cal/86. Surendra Nath Kar, Hirendra Nath Mukherjee and Tapen Ghosh. Rail Closure, phiroll, bush made of fibre glass for railway truck and equipments.

21st October, 1986

763/Cal/86. Lingaraj Patnaik. Core and winding assembly for transformers.

764/Cal/86. Dr. Binod Kumar Varma. Minimizing the tannin content of Sulseedcake to enhance manifold its suitability as a livestock/poultry feed ingredient.

765/Cal/86. Teibow Co., Ltd Pen tip structure and a ball point pen incorporating same.

766/Cal/86. Pennwalt Corporation. Electrolytic recovery of lead from scrap.

767/Cal/86. Siemens Aktiengesellschaft. An Electric Switch.

768/Cal/86. Tintzschler GmbH & Co. Kg. A device for the removal of the goods from the bales of spinning material placed in a row.

769/Cal/86. Warman International Limited. Improved sealing method for bearing assemblies (22nd October, 1985) Australia.

770/Cal/86. I. R. F. Industrie Riunite Eurodomestici S.p.A. Method for producing aluminium alloy evaporators for domestic refrigerators, and the evaporator obtained.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, JIIRD FLOOR, KAROL BAGH, NEW DELHI-110005

22nd September, 1986

834/Del/86. Bandag Licensing Corporation. "Bead Seal ring unit".

835/Del/86. Kennecott Corporation. "Electrodeposited thick glass coatings for severe corrosive service".

836/Del/86. Union Carbide Corporation. "Process for the separation of hydrocarbons from a mixed feedstock".

23rd September, 1986

837/Del/86. Council of Scientific and Industrial Research. "Process for the preparation of glucose isomerase".

838/Del/86. Piaggio & C.S p.A.. "Device for the automatic adjustment of the enrichment of the fuel mixture in internal combustion engines with carburetion".

839/Del/86. Point-A-Mousson S.A. "Installation for the step by step extraction from an ingot mould of a product of elongated shape obtained by continuous bottom casting".

840/Del/86. Shell Internationale Research Maatschappij B.V.. "Pesticidal benzoylurea compounds". (Convention date 25th September, 1985) (U.K.).

841/Del/86. The Lubrizol Corporation. "Compositions, concentrates, lubricant compositions, fuel composition and methods for improving fuel economy of internal combustion engines".

24th September, 1986

842/Del/86. Rajendra Kumar. "A suitcase of a briefcase".

843/Del/86. National Council for Cement and Building Materials. "A process for the preparation of clinker".

844/Del/86. Dai Ming Kuo. "Sterilizer for toilet spray attachment".

845/Del/86. Allied Corporation. "Automatic slack adjuster".

846/Del/86. Unipoval Chemical Co. "Low molecular weight ethylene alphaolefin copolymer intermediates".

25th September, 1986

- 847/Del/86. Volzhskoe Obiedinenie Po Proizvodstvu Legkovykh Avtomobilei (AVTOVAZ), "Method of making die set line".
- 848/Del/86. Energy Conversion Devices, Inc., "Stowable large area solar power module".
- 849/Del/86. Energy Conversion Devices, Inc., "Process and apparatus for continuous production of lightweight arrays of photovoltaic cells".
- 850/Del/86. Foster Wheeler Ltd., "Heat recovery system".

26th September, 1986

- 851/Del/86. Council of Scientific and Industrial Research, "An improved process for the production of humic acid and its water soluble ammonium salt from low rank coal, weathered coal or lignite through solid gas-reaction".
- 852/Del/86. Council of Scientific & Industrial Research, "An improved method to reduce manganese dioxide to manganese monoxide in manganese ores".
- 853/Del/86. Council of Scientific and Industrial Research, "Process for the preparation of esters of dibasic amino acids with sterols and polymers thereof".
- 854/Del/86. Council of Scientific and Industrial Research, "Improved process for the production of magnesium alloy anodes".
- 855/Del/86. Energy Conversion Devices, Inc., "Power generating optical filter".
- 856/Del/86. Energy Conversion Devices Inc., "Electrolevelled substrate for electrophotographic photoreceptors and method of fabricating same".

30th September, 1986

- 857/Del/86. Bakhtawarkal Sood, "Keto press".
- 858/Del/86. Jagdish Kumar Chawla, "Zero and the universe".
- 859/Del/86. Borg Warner Industrial Products Inc., "Controllable mechanical seal".
- 860/Del/86. BP Chemicals Ltd., "Polymerisation of olefins using modified ziegler natta catalyst". (Convention date 17th June, 1986) (U.K.).
- 861/Del/86. Bendix France, "Braking assistance vacuum servomotor and process for adjusting such a servomotor".
- 862/Del/86. De La Rue Giori SA., "Rotary multicolor printing machine for simultaneous rectoverso printing".
- 863/Del/86. Uniroyal Chemical Co., Inc., "Blowing agent composition".
- 864/Del/86. STC PLC, "Optical fibre cable". (Convention date 4th October, 1985) (U.K.).
- 865/Del/86. 528569 Ontario Ltd., "Apparatus for applying plastic film material to a glass sheet".

- 866/Del/86. Rob Van Den Haak, "An anchor". (Convention date 9th December, 1985) (U.K.).
- 867/Del/86. NL Industries, Inc., "A method of reducing the corrosive effect of aqueous brine on ferrous metal surfaces exposed to said brine". [Divisional date 5th April, 1984].

**APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH 61, WALLAJAH ROAD,  
MADRAS-600 002**

29th September, 1986

- 764/Mas/86. Lucas Industries Public Limited Company, Improvements in Self-energising Disc Brakes, (September 28, 1985; United Kingdom).

765/Mas/86. J. K. Elamthottam, Reinforced rubber roofing material.

766/Mas/86. C. C. Wills, A disc ruling machine.

767/Mas/86. R. C. P. Palnitkar, Mrs. M. R. Palnitkar, M. R. C. Palnitkar &amp; V. R. Palnitkar, A device for use in aircraft and spacecraft for imparting a motive thrust thereto.

768/Mas/86. A. J. Loganathan, A device for increasing the fuel combustion efficiency of an I. C. Engine.

769/Mas/86. Caterpillar Inc., Engine having a multipiece cylinder block. (March 6, 1986; Canada).

770/Mas/86. Joseph Burley, Improvements relating to air fresheners. (October 2, 1985; United Kingdom).

771/Mas/86. Union Carbide Corporation, Treating aqueous systems with synergistic algacidal compositions.

772/Mas/86. SMS Hasenclever Maschinenfabrik GmbH, A multiple stage forging press.

773/Mas/86. The Dow Chemical Company, Epoxy resin powder coating composition.

30th September, 1986

774/Mas/86. Akebono Brake Industry Co. Ltd., Straightener roll machine for brake shoe.

775/Mas/86. Stamicarbon B. V., Modified polyethylene, process for preparing modified polyethylene and products produced from modified polyethylene.

1st October, 1986

776/Mas/86. A. Arrockiasamy, Jacquin all years calendar.

777/Mas/86. F. L. Smith &amp; Co., Vertical roller mill. (October 29, 1985; United Kingdom).

778/Mas/86. Raychem Limited, High voltage insulating materials. (October 2, 1985; United Kingdom).

779/Mas/86. Joseph, An aid to climbing on tall trees.

3rd October, 1986

780/Mas/86. Dana Corporation, Anchor pin retainer.

781/Mas/86. The South India Textile Research Association, A device for drawing off the fabric at a predetermined constant tension from the knitting elements of hand operated flat knitting machine.

**ALTERATION OF DATE**

158450, Ante dated to 17th December, 1979.  
(457/Cat/83)

**COMPLETE SPECIFICATION ACCEPTED**

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CLASS : 193. 158447

Int. Cl. C 04 b 33/14.

**PROCESS FOR MAKING COPPER BODY BONDED CERAMICS.**

Applicant : KABUSHIKI KAISHA MEIDENSHA OF 1-17, OHSAKI 2-CHOME, SHINAGAWA-KU, TOKYO 141, JAPAN.

Inventors : 1. YOSHIO KASHIWAGI, 2. TSUTAI SUZUKI.

Application No. 198/Cal/83 filed February 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A process for making copper body bonded ceramic body having a melting point higher than that of copper, said process comprising the steps of :

directly sandwiching a layer of chromium oxide or copper chromium alloy between the copper and ceramic bodies forming a chromium film at least 10mm thick on a surface of the ceramic body, and oxidising the chromium film;

heating a temporary assembly of the ceramic and copper bodies in an atmosphere in which copper will not oxidise, as hereinbefore described, at a temperature of at least 900°C but below the melting point of copper body.

Compl. Specn. 18 pages. Drgs. 3 sheets.

CLASS : 70-B 158448.

Int. Cl. B 01 k 3/06.

**PROCESS FOR THE ELECTROLYTIC PRODUCTION OF HYDROGEN.**

Applicant : INCO RESEARCH AND DEVELOPMENT CENTRE, INC., AT STERLING FOREST, SUFFERN, NEW YORK 10501, UNITED STATES OF AMERICA.

Inventors : 1. DALE EDWARD HALL, 2. JOHN TAYLOR ARMS, 3. WILLIAM DONALD KENNEDY CLARK, 4. VANCE ROGERS SHEPARD, JR.

Application No. 274/Cal/83 filed March 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A process for the electrolysis of water comprising electrolytically generating hydrogen gas at, and recovering it from, the interface of an aqueous alkaline solution and a cathode which comprises a hydrogenated species of an AB<sub>n</sub> material including an AB<sub>2</sub> phase, wherein A is a rare earth metal or

calcium, or two or more of these elements, of which up to 0.2 atoms in total may be replaced atom for atom by one or both of zirconium and thorium, and B is nickel, cobalt or both, of which up to 1.5 atoms in total may be replaced atom for atom by one or more of copper, aluminium, tin, iron and chromium, and that the particles of the AB<sub>n</sub> material do not exceed 20μm in size and are bonded by a metallic or electrically conductive plastic binder.

Compl. Specn. 19 pages

Drgs. 3 sheets.

CLASS : 195-G.

158449.

Int. Cl. F 16 k 5/08.

**AN IMPROVED WATER-PROOF WATER TAP.**

Applicant and Inventor : SASANKO SEKHAR GHOSH, 28/C, SUHASHINI GANGULY SARANI, CALCUTTA-700 025, WEST BENGAL, INDIA.

Application No. 374/Cal/83 filed March 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**11 Claims.**

A waterproof water tap which is provided with a device comprising a rubber bellow, an inlet for inducting air or water into the said bellow and an adjustable needle valve meant for controlling the inflow of air or water into the said bellow according to a stipulated time for operation, wherein the said rubber bellow is mounted on and guided by a guide stem and an operating lever which carries a trip sector which floats on a spindle.

Compl. Specn. 13 pages, Drg. 1 sheet.

CLASS : 90-1

158450

Int. Cl. C 03c 1/00, 3/00.

**GLASSES CAPABLE OF BEING TRANSFORMED INTO FIBRES AND FIBRES FORMED THEREFROM.**

Applicant : "SPAFI-SOCIETE ANONYME DE PARTICIPATIONS FINANCIERES ET INDUSTRIELLES" (FORMERLY SAINTGOBAIN INDUSTRIES), OF 62 BOULEVARD VICTOR HUGO, NEUILLY SUR SEINE, FRANCE.

Inventors : 1. JEAN A. BATTIGELLI, 2. IGOR FILENKO, 3. FRANCOIS BOUQUET, 4. JEAN-FACQUES MASSOL.

Application No. 457/Cal/83 filed April 20, 1983.

Division of Application No. 1316/Cal/79 dated 17th December 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims.**

Glasses capable of being transformed into fibres, characterised by the following chemical compositions by weight :

Elements	Range
SiO <sub>2</sub>	59—54
Al <sub>2</sub> O <sub>3</sub>	4—8
Na <sub>2</sub> O	12.5—18

K <sub>2</sub> O . . . . .	0--3
R <sub>2</sub> O=Na <sub>2</sub> O + K <sub>2</sub> O . . . . .	15—18
Al <sub>2</sub> O <sub>3</sub> /R <sub>2</sub> O . . . . .	0.25—0.40
CaO . . . . .	4.5—9
MgO . . . . .	0--4
MgO/CaO . . . . .	0—0.75
MgOCaO . . . . .	7—9.5
MnO . . . . .	0—4
BaO . . . . .	0—5
Fe <sub>2</sub> O <sub>3</sub> . . . . .	0.1—5
MnO+BaO+Fe <sub>2</sub> O <sub>3</sub> . . . . .	3.5--8
B <sub>2</sub> O <sub>3</sub> . . . . .	0—2
Various . . . . .	≤1
of which SO <sub>3</sub> . . . . .	≤0.6
Compl. Specn. 21 pages.	Drg. N.I.

158451

CLASS : 6-B4+9-A+  
B+E+  
40-B4- 139-A+  
B+D.

Int. Cl. B 01 d 53/02; B 65 g 5/00; C 01 b 1/00.

**A METHOD OF MAKING MULTICOMPONENT COMPOSITIONALLY DISORDERED MATERIAL FOR REVERSIBLY STORING HYDROGEN.**

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 UNITED STATES OF AMERICA.

Inventors : 1. STANFORD ROBERT OVSHINSKY, 2. KRISHNA SAPRU, 3. KRYSTYNA DEC, 4. KUOCIIH HONG.

Application No. 473/Cal/83 filed April 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims**

A method of making multicomponent compositionally disordered material for reversibly storing hydrogen, comprising :

forming a host matrix by methods known per se from a solid light-weight element, such as herein defined and structurally modifying said host matrix by incorporating therein e.g. by sputtering, at least one modifier element such as herein defined to provide a disordered material which enhances the hydrogen storage characteristics.

Compl. Specn. 42 pages Drg. Nil.

158452

CLASS : 31-C.

Int. Cl. H 01 I 7/00.

**AN IMPROVED GAS GATE.**

Applicant : ENERGY CONVERSION DEVICES, INC. AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN, UNITED STATES OF AMERICA.

Inventors : 1. PREM NATH, 2. DAVID ATTILIO GATTUSO.

Application No. 478/Cal/83 filed April 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

An improved gas gate for substantially reducing the backflow of gases from one dedicated chamber to an adjacent dedicated chamber, the gas gate including a relatively narrow passageway through which a substrate moves from the first of said adjacent dedicated chambers wherein a first layer is deposited onto one side of said substrate to the second of said deposition chambers wherein a second layer is deposited onto the first layer; said passageway defined by opposed, elongated upper and lower walls and opposed, relatively short walls; said first chamber including means for introducing at least one gas thereto; said second chamber including means for introducing at least one additional gas thereto; and means associated with said chambers for evacuating the gases from said chambers; said improved gas gate including, in combination :

means for urging the unlayered side of the substrate traveling through the passageway into sliding contact with one of the elongated passageway walls, to decrease the distance between said upper and lower passageway walls without bringing the layered substrate surface into contact with the other elongated passageway wall so as to reduce the backflow of gases from the second chamber through the gas gate passageway.

Compl. Specn. 51 pages. Drg. 2 sheets.

CLASS : 14-A.. 158453

Int. Cl. H 01 m 35/02.

**IMPROVED RECHARGEABLE BATTERY AND ELECTRODE USED THEREIN.**

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MI 48084, UNITED STATES OF AMERICA.

Inventors : 1. KRISHNA SAPRU, 2. ARIE REGER, 3. STANFORD ROBERT OVSHINSKY, 4. BENJAMIN REICHMAN.

Application No. 476/Cal/83 filed April 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**28 Claims**

A rechargeable hydrogen storage battery anode comprising a disordered multicomponent material for reversibly, electrochemically charging and discharging hydrogen without forming hydrogen gas, said material including a host matrix selected from the group consisting of Mg, Ti, V, Zr, Nb, La, Si, Ca, Sc, Y and combinations thereof and at least one modifier element selected from the group consisting of Cu, C, Fe, Ni, Co, W, Li, Re and combinations thereof, said material having at least one structure selected from the group consisting of amorphous, microcrystalline, polycrystalline lacking long-range compositional order with three or more phases of said polycrystalline structure and any combination of said amorphous, microcrystalline and polycrystalline structures.

Compl. Specn. 46 pages. Drg. 2 sheets.

CLASS : 129-B &amp; G; 136-C. 158454

Int. Cl. B 29 f 3/00.

**TOOL FOR AN EXTRUDER.**

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF POSTFACH 1209, 5210, TROISDORF, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. SIEGFRIED TITZ, 2. MATTHIAS LANG, 3. WALDEMAR WISSINGER, 4. JOSEF KURTH.

Application No. 557/Cal/83 filed May 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A tool for an extruder having incorporated therein a flow channel with displacement cores for forming a plasticised plastics material flow in a profile cross-section possessing hollow chambers, with the tool housing being formed of several tool parts with vertical and/or horizontal partition planes and the displacement cores being connected in the flow channel with the tool housing through core holding webs and with these being interrupted in the region of the penetration of the flow channel and being reduced corresponding to the web thickness and subdividing the material into part flows with the combined cross-section of the part flows around the web thicknesses being smaller than the cross-section of the material flow which has not been divided, characterised in that the material flow shaped to the profile cross-section is sub-divided into part flows (64a, b, c) before the region of the core holding web (7) by the displacement cores (4a, b, c), with the cross-section of the combined part streams being equal to the cross-section of the material flow and the displacement cores (4a, b, c) being enlarged in the region of the core holding webs (7) on account of the thickness d of the core holding webs so that the part flows, with the constant flow cross-sections are conducted laterally onto the core holding webs over the displacement core projection (9).

Compl. Specn. 12 pages. Drg. 5 sheets.

CLASS : 65-B..

158455

Int. Cl. H 01 f 27/00.

## APPARATUS EMPLOYING SUPERSATURATED VAPOR DIELECTRICS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. RONALD THOMAS HARROLD.

Application No. 560/Cal/83 filed May 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

Apparatus including means defining a substantially enclosed space, and, disposed in said space, elements adapted to have different electrical potentials and isolated from each other by a dielectric gas, characterized by means for supersaturating said dielectric gas with the vapors of a dielectric liquid.

Compl. Specn. 8 pages. Drg. 1 sheet.

CLASS : 172-D, & F.

158456

Int. Cl. D 01 h 7/00, 7/92.

## FRICITION SPINNING APPARATUS FOR FORMING A YARN.

Applicant : HOLSWORTH (U.K.) LTD., OF P.O. BOX 55, SCAITCLIFFE STREET, ACCRINGTON, LANCASHIRE, BB5 0RN, ENGLAND.

Inventors : 1. ALAN PARKER, 2. PETER JAMES DICKINSON.

Application No. 582/Cal/83 filed May 10, 1983.

Convention dated 21st May, 1982 (8214800) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

Friction spinning apparatus for forming a yarn including a component of staple fibres and a component formed by a continuous strand comprising, a pair of rollers arranged such that the surface of each of the rollers co-operates with a surface of the other to form an elongate yarn formation zone at a line of closest approach of the surfaces, means for feeding the staple fibres to the elongate yarn formation zone, means for guiding the continuous strand to the elongate yarn formation zone and means for rotating each of the surfaces about a respective axis to twist the fibres and strand to form a yarn, wherein at least one of the surfaces includes a peripheral recess lying in a plane which is radial to the axis of rotation of the surface for receiving the strand guide means.

Compl. Specn. 11 pages. Drg. 1 sheet.

158457

CLASS : 105 D & 29 D.

Int. Class : G07c 1/10.

## "TIME CLOCK RECORDING AND COMPUTATION APPARATUS".

Applicant : KRONOS, INC, a Massachusetts Corporation, having its principal place of business at 355 Western Avenue, Boston, Massachusetts 02135, United States of America.

Inventor : LARRY K. BAXTER, ROBERT DAVID COHEN, MARK STUART AIN & SHELDON PHILLIP APSEJL.

Application for patent No. 934/Del/79 filed on 31st December, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

Time clock recording and computation apparatus adapted to employ a time or other data card said card being provided with a clock track composed of a successively interrupted longitudinal track of black marks and a mark sense field of spaces for data said apparatus comprising, in combination, guide means for receiving the card and permitting its entry and passage along a predetermined path; photosensitive mark sensing means disposed along said path for reading marks upon the card, said mark sensing means comprising clock-track detector means aligned with said track and data channel detector means for reading data along the said mark sense field, and means responsive to the sensing by the clock track detector means of the clock track black marks for setting intermediate thereof the sensitivity of the mark sense detector means.

(Complete specification 50 pages. Drawing 13 sheets).

158458

CLASS : 205K & 136M.

Int. Class : B60c 11/12.

## "PREVULCANISED TIRE TREAD STRIP".

Applicant : BANDAG, INCORPORATED, an Iowa Corporation, of Bandag Centre, Muscatine, Iowa 52761, United States of America.

Inventor : 1. JOHN BURCHE, 2. BRODIE MARILYN K.

Application for Patent No. 705/DFL/1982 filed on 15th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A vulcanized tire tread strip having:

a plurality of parallel projecting tread ribs separated by tread grooves, thereby having a tread rib area and void area;

said ribs extending completely across the tread strip and being disposed in groups of at least two ribs per group;

said groups being spaced apart by major tread grooves of zig-zag or serpentine shape and the ribs of each group being spaced apart by minor zig-zag or serpentine tread grooves of lesser width than said major grooves;

said tread ribs having therein a plurality of closely spaced parallel uniformly spaced slits which penetrate the ribs down to from 55% to 95% of the height of the ribs and which are spaced apart such that there are one to eight slits per inch;

said slits extending completely across the tread strip and from one adjacent tread groove to another adjacent tread groove so as to divide each rib into a plurality of tread elements;

said slits extending at an angle of 25° plus or minus 15° with respect to the transverse dimensions of the tread strip and intersecting the tread rib edges at between 45° and 135°;

the ratio of tread rib area to void area being in the range of about 1.5 : to 8 : 1, and

a plurality of tie bars having ends connecting tread elements on one side of said minor groove with tread elements on the other side of the same minor groove;

said tie bars having longitudinal dimensions between said ends sufficient to minimize severance of said tie bars between their respective ends by said slits, said tie bars extending across their respective minor grooves and being integral with their respective tread elements, said major grooves being set free of tie bars.

Complete specification 13 pages.

Drg. 3 sheets.

CLASS : 141 D [xxxIII(B)].

158459

Int. Cl. : C 04 b 3/00.

**"APPARATUS AND METHOD FOR PRODUCING CALCINED ORES".**

Applicant(s) : FULLER COMPANY, of 2040 Avenue "C", P. O. Box 2040, Bethlehem, Pennsylvania 18001, United States of America, a company organised under the laws of the State of Delaware, U. S. A.

Inventor : WARSHAWSKY JAY.

Application for Patent No. 716/D/82 filed on 22nd September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

Apparatus for producing calcined ore for use in the manufacture of cement by thermal processing of raw fine grained ore such as cement raw meal, lime or dolomite comprising:

a furnace having an inlet for gas combustion and raw fine grained material to be calcined, an inlet for fuel for combustion in said furnace and an outlet for spent combustion gas and at least partially calcined fine grained material;

a gas-solids separator having an inlet for spent combustion gas and at least partially calcined fine grained material flow connected to the outlet of said furnace, an outlet for separating at least partially calcined fine grained material flow an outlet for separating spent combustion gas;

a mixing zone for mixing fine grained material to be calcined and gas for combustion; and

means for supplying a portion of the at least partially calcined fine grained material from the outlet for separating at least partially calcined fine grained material of said gas-solids separator to the mixing zone and the inlet for gas for combustion and raw fine grained material of said furnace and for discharging the remainder of the at least partially calcined fine grained material.

Compl. Specn. 27 Pages.

Drgs. Three sheets.

CLASS : 85 F & K.

158460

Int. Cl. : F 23b, 1/00, 7/00 and F 23h 11/00.

**"IMPROVEMENTS IN OR RELATING TO SOLID FUEL COMBUSTION EQUIPMENT."**

Applicant : GWB ENERGY DEVELOPMENTS LTD formerly known as THORN EMI ENERGY DEVELOPMENTS LTD, a British Company organised in accordance with the laws of Great Britain, of P. O. Box 4, Burton Works, Dudley, West Midlands DY3 2AD, England.

Inventors : JOHN ROBERT HYDE AND WILLIAM LUTHER HACKETT.

Application for Patent No. 743/D/82 filed on 8th October, 1982.

Convention Date on 16th October, 1981/8131280/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

21 Claims

Solid fuel combustion equipment including a grate assembly having at least two longitudinally extending support elements adapted to pivot about the longitudinal axes thereof, a plurality of grate bars provided on the support elements, and sealing means associated with each support element and adapted to co-operate with one another to provide a seal between adjacent elements.

Compl. Specn. 15 Pages.

Drg. Six Sheets.

CLASS : 61 F and 85 I.

158461

Int. Cl. : F 23g 7/02 and F 26b 3/00.

**"AN APPARATUS FOR DRYING BAGASSE."**

Applicant : THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD., Chanakya Bhavan, Africa Avenue New Delhi-110 021, India, an Indian Company.

Inventor : SUBHASH CHANDRA BOSE.

Application for Patent No. 766 D/82 filed on 20th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

An apparatus for drying mill-wet bagasse comprising a heat exchanger for heating ambient air by flue gases from a steam generator, a fluidized bed dryer connected to the heat exchanger to receive hot air from the heat exchanger conveyor means for transporting mill wet bagasse to the fluidized bed dryer and further conveyor means for discharging dried bagasse from the fluidized bed dryer.

Compl. Specn. 8 Pages.

Drg. 3 Sheets.

CLASS : 40 B.

158462

Int. Cl. : B 01j 11/12 and 11/40.

**"A PROCESS FOR THE PREPARATION OF CATALYST FOR ISOMERISATION OF ALKYL AROMATIC COMPOUNDS."**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : SAVITA VISHNOI, SUBRAMANIAN SIVA-SANKAR AND PATTI RATNASAMY.

Application for Patent No. 768/DEL/1982 filed on 23rd October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

**8 Claims**

A process for the preparation of a catalyst for isomerisation of alkyl aromatic compounds comprising treating dealuminated crystalline mordenite with aqueous ammonium salt solution to obtain crystalline ammonium mordenite subjecting the same to calcination by known methods treating the calcined reaction product with a platinum salt solution and then with an aqueous calcium salt solution and then the reaction product is separated, dried and calcined at upto 500°C to obtain the desired catalyst, a dealuminated crystalline calcium platinum H-mordenite.

Compl. Specn. 7 Pages.

CLASS : 32 F 3(1).

158463

Int. Cl. : C 07c 39/14.

**"AN IMPROVED PROCESS FOR THE PRODUCTION OF BETA-NAPHTHOL."**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : SUBODH KUMAR RAY, KAUSHAL KISHORE TIWARI AND PHANINDRA NATH MUKHERJEE.

Application for Patent No. 770/DEL/1982 filed on 23rd October, 1982.

Complete Specification left on 22nd December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

**4 Claims**

An improved process for the production of B-naphthol by sulphonation of naphthalene by subjecting the sulphonated mass by hydrolysis and alkali neutralisation subjecting neutralised mass to alkali fusion and further to acid neutralisation to obtain B-naphthol, characterised in that the sulphonated mass after hydrolysis is neutralised by treatment with sodium sulphate solution obtained as raffinate during the neutralisation by acidification of the quenched fusion melt to liberate B-naphthol, with the sulphur dioxide evolved during the neutralisation of the sulphonated mass.

Compl. Specn. 8 Pages.

Provisional Specn. 5 Pages.

CLASS : 83 A.

158464

Int. Cl. : A23L 1/10.

**"METHOD FOR PRODUCING FOODSTUFFS FROM WHOLE CEREAL GRAINS".**

Applicant : MASKIN AB PLAVIA, a Swedish company of Schelegatan 1, S-112 23 Stockholm, Sweden.

Inventor : ERNST GONRAD.

Application for Patent No. 786/DEL/1982 filed on 29th October, 1982.

Appropriate office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A method for the production of foodstuff components in the form of a liquid saccharide portion, and a solids residue portion, respectively from whole cereal grains, whereby the grain contents is treated with an α-amylase while being slurried in an aqueous phase to solubilize the starch content of the grain, characterized in that the grain is added to the aqueous phase simultaneously with the enzyme used, whereby the grain is added in dry form directly to the aqueous phase, which has such a temperature that the starch content of the grain is converted only into soluble dextrines and oligosaccharides before the enzyme becomes sterilized by the heat, thereby preventing any formation of any substantial amounts of glucose, thereby preventing the formation of sugar-protein-compounds, whereupon the starch derivatives and the solid residues of the grain content, respectively, are each separated and isolated.

Compl. Specn. 13 Pages.

CLASS : 69 F &amp; I.

158465

Int. Cl. : H01h 13/00.

**"A MECHANICALLY CONTROLLED SWITCH WITH AUTOMATIC OPENING FOR A PROTECTIVE LIMITING DEVICE".**

Applicant : LA TELEMECANIQUE ELECTRIQUE, a French company of 38, bis, Avenue du Marechal-Joffre, 92000 Nanterre, France.

Inventor : ROGER VAYRE AND CHRISTIAN THOMAS.

Application for Patent No. 805/DEL/1982 filed on 3rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A mechanically controlled switch with automatic opening for protective limiting device comprising :

(a) an insulating casing :

(b) at least one removable insulating cartridge mounted in said casing and, housed in said cartridge :

(i) a breaking chamber having fins for fractionating the arcs :

(ii) a power switch placed in the breaking chamber and having at least one fixed contact, one mobile contact and a fixedly mounted pressure spring tending to apply the mobile contact against the fixed contact :

(iii) circuit means having terminals located outside the casing and, said power switch and a coil connected in series in said circuit means within the cartridge,

(iv) a pushbutton co-operating with said coil for moving the mobile contact from a rest position to an actuated position when a short circuit current is flowing through the said circuit means :

(v) pushbutton means having an outer portion which projects into the casing out of the cartridge and an inner portion co-operating with the mobile contact and displaceable from a rest position in which the power switch is closed to first and second actuated positions in which the power switch is open, the second actuated position being more remote from the rest position than the first actuated position,

(vi) and mechanical transmission and locking means, co-operating with the striker in the actuated position of the striker and with the pushbutton means to displace the pushbutton means from its rest position to its second actuated position and to lock the pushbutton means into its second actuated position.

(c) control means housed in the casing outside the cartridge and having a mobile control part which co-operates with the outer portion of the pushbutton means to displace it from its rest position to its first actuated position :

(d) disabling means, co-operating with the said mechanical transmission and locking means when the striker is in its actuated position for disabling the said control means : said cartridge and said casing having co-operating guiding and holding means for positioning the cartridge within the casing, and detachably co-operating electrical connecting means which are part of said circuit means.

Compl. Specn. 15 Pages.

Drg. 3 Sheets.

CLASS : 69 B & D.

158466

Int. Cl. : H01h 71/24, 1/20.

#### "A CONTACTOR APPARATUS".

Applicant : LA TELEMECANIQUE ELECTRIQUE, A FRENCH COMPANY OF 33 BIS, AVENUE DU MARE-CHAL-JOFFRE, 92000 NANTERRE, FRANCE.

Inventor : CHRISTIAN THOMAS.

Application for patent no. 806/Del/82 filed on 3rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110005.

#### 6 Claims

A contactor apparatus comprising, housed in a casing :

- (a) at least one contact set connected in a power circuit and including stationary and movable power contacts;
- (b) spring means co-operating with said movable power contacts for normally closing said contact set;
- (c) pusher means co-operating with said movable power contacts for opening the said contact set against the action of said spring means;
- (d) control electro-magnet means having an energizing coil connected in a control circuit, an armature and means for transmitting the motion of said armature to the pusher means;
- (e) overload tripping means including a coil connected in series with said contact set in said power circuit means and striker means electro-magnetically controlled by said coil;
- (f) a pivotable lever having first and second arms, said lever being pivoted by said striker means from a rest position to an actuated position in which the first arm has displaced the said pusher means to open the contact set;
- (g) spring-actuated elongated bolt means having first and second end portions and at the first end portion thereof first & second camming surfaces, the first camming surface being, in a rest position of said bolt means, retained by the second arm of the lever when the latter is in the said rest position, whereas, when the lever is in the said actuated position, the bolt means is released into an actuated position and the second camming surface co-operates with the second arm of the lever to maintain the latter in its actuated position;

(h) control switch means connected in said control circuit in series with the said energizing coil and spring means for normally closing the said control switch means;

(i) mechanical tripping means comprising a spring-actuated member displaceable from a rest position to an actuated position in which the tripping means co-operate with the control switch means to maintain the same in the open condition, the said spring actuated member being so arranged that the position thereof will be visible from outside the casing and having means, accessible from outside the casing enabling an operator normally to displace it from its actuated to its rest position, the second end portion of the said bolt means co-operating with the said tripping means when the pivotable lever is in the actuated position to open the control switch means and release the spring actuated member for motion to its actuated position.

Compl. Specn. 21 pages.

Drg. 4 sheets.

CLASS : 69 D & O.

158467

Int. Cl. : H01h 3/28, 75/00.

#### "CONTACTOR APPARATUS".

Applicant : LA TELEMECANIQUE ELECTRIQUE, A FRENCH COMPANY OF 33 BIS, AVENUE DU MARE-CHAL-JOFFRE, 92000 NANTERRE, FRANCE.

Inventor : CHRISTIAN THOMAS.

Application for Patent No. 807/Del/82 filed on 3rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 9 Claims

A contactor apparatus comprising :

- (i) Power circuit means for supplying current to a load including a plurality of power switch means in said circuit and, for each of said switch means, a first protection means actuated by the occurrence of a short circuit current through the Power circuit means, second and third protection means respectively actuated by the occurrence of second and third types of overload current having an intensity substantially lower than that of a short circuit current, with the third type of overload current having a substantially longer duration than that of the second type, the first protection means, when actuated, triggering said power switch means into an open position to disconnect the circuit from the load;
- (ii) control circuit means including a control switch serially connected with electromagnet means, said electromagnet means, when energized through said control circuit means, controlling the opening of one of said power switch means; and a spring means normally resetting the control switch into a closed position after opening of the one switch means;
- (iii) local control means for controlling one of said switches comprising a mechanical control member having camming surface portions and mounted for displacement along a predetermined path successively from first to second and third positions against the action of an external force such said spring means for resetting the said mechanical member into its first position;
- (iv) a transmission member operated by said local control means having a locking surface portion which contacts a first one of said camming surface portions of the mechanical control member for retaining it in its third position when the said mechanical control member has been set into the said third position under the action of the external force, the said transmission member further having a control surface por-

tion which acts upon the control switch to open the same when the mechanical control member is not in its third position;

- (v) First, second and third tripping mechanisms each having a cocked and a released position and further comprising
  - (a) a control element having a cocked and a released positions and comprising locking means;
  - (b) first spring means exerting on said control element a cocking force to push its cocked position said control element being adapted to pass from the cocked position to the released position under action of a releasing force against the action of said first spring means;
  - (c) Actuation means cooperating with second spring means and with said locking means, to pass automatically, under the action of said second spring means, from a cocked position in which said actuation means compresses said second spring means and is locked by said locking means while said control element is in cocked position, to a released position when said control element is in released position and to pass from the released to the cocked position under the action of a cocking force antagonist to the action of the second spring means and which is in opposite relation with said releasing force;
  - (d) A first mechanical linkage between said actuation means of the first tripping mechanism and a second portion of the camsurface, which exerts said cocking force on said actuation means when the mechanical control member is in said first position;
  - (e) A second mechanical linkage between the actuation means and the control element of the first tripping mechanism and the actuation means of the second and third tripping mechanisms, so that said actuation means when passing into released position, exerts on said control element a releasing force and said actuation means of the first tripping mechanism exerts on the actuation means of second and third mechanisms when passing in cocked position, a cocking force;
  - (f) third mechanical linkage between the control elements of the second tripping mechanism and the first protection means so that when the mechanical control member is in first position, said first protection means when actuated applies a releasing force on the control element of the second tripping mechanism which, in turn, when passing into its releasing position applies by its actuation means a releasing force to the control element of the first tripping mechanism;
  - (g) fourth mechanical linkage between the control element of the third tripping mechanism and the second protection means so that, when the mechanical control member is in first position, said second protection means, when actuated, applies a releasing force on the control element of the third tripping element which, in turn, when passing into its releasing position applies a releasing force to the control element of the first tripping mechanism;
  - (h) fifth mechanical linkage provided between said actuating means of the first tripping mechanism and the transmission member, said linkage including a control surface which, in the released position of the first tripping mechanism cooperates with the transmission member to unlock the said locking surface portion from said first camsurface portion, said fifth mechanical linkage having an abutment surface which coop-

erates with a third camsurface portion to stop the displacement of the mechanical control member from its third position to its second position.

Compl. Specn. 26 pages.

Drg. 3 sheets

CLASS : 32F 3(1)

158468

Int. Cl. : C07c 37/00.

"A PROCESS FOR THE SIMULTANEOUS PREPARATION OF 4-TERPINENOL,  $\alpha$ -TERPINEOL AND  $\delta$ -P-CYMENOL".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : BHAGAVATHULA RAVINDRANATH AND PULLABHATLA SRINIVAS.

Application for Patent No. 254/DEL/1982 filed on 25th March, 1982.

Complete specification left on 24th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110005.

#### 6 Claims

A process for the simultaneous preparation of 4-terpinenol,  $\alpha$ -terpinol and  $\delta$ -p-cymenol comprising reacting terpinolene oxide with sodium metal in the presence or absence of an organic solvent at room temperature ( $25^{\circ}\text{C}$ ) to the reflux temperature of the solvent and separating the reaction products formed by known methods.

Provisional Specn. 3 pages.

Compl. Specn. 9 Pages.

CLASS : 32 F 2 C IX(1)] and 55 F [IX X(1)]

158469

Int. Cl. C 07d 93/00.

"A PROCESS FOR PREPARING WATER-SOLUBLE BENZOTHIADINE DIOXIDE SALTS."

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : JOSEPH GEORGELOMBARDINO.

Application for Patent No. 333/DEL/82 filed on 28th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110005.

#### 9 Claims

A process for preparing a water-soluble lysine or arginine salt of N-(2-pyridyl)-2-methyl-4-hydroxy-2H-1, 2-benzothiadine 3-carboxamide 1, 1-dioxide, characterised by reacting N-(2-pyridyl)-2-methyl-4-hydroxy-2H-1, 2-benzothiadine 3-carboxamide 1, 1-dioxide with lysine or arginine.

Compl. Specn. 12 Pages.

Drg. One Sheet.

CLASS : 32 B & 32F s(c)

158470

(5 Claims)

Int. Class :— C07c-15/02, 39/04, 39/06.

"A PROCESS FOR THE RECOVERY OF SECONDARY ALKYLBENZENE FROM A MIXTURE THEREOF WITH WATER AND A PHENOL DERIVATIVE OF AFOREMENTIONED SECONDARY ALKYLBENZENE."

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U.S.A.

Inventor : PETER RAYMOND PUJADO.

Application for Patent No. 518/Del/1982 filed on 8th July 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

(8 Claims)

A process for the recovery of a secondary alkylbenzene from a mixture thereof with water and a phenol derivative of said secondary alkylbenzene which comprises the step of :

(a) introducing said mixture into a first fractionation column and separating a bottoms fraction comprising the major portion of said phenol derivative, and an overhead fraction comprising said secondary alkylbenzene, water and the residual portion of said phenol derivative;

(b) discharging said bottoms fraction;

(c) condensing said overhead fraction and separating an aqueous phase containing a minor portion of said residual phenol derivative, and a water-saturated organic phase comprising said secondary alkylbenzene and the balance of said residual phenol derivative;

(d) discharging said aqueous phase; and

(e) introducing at least a portion of the water-saturated organic phase into a second fractionation column, separating a phenol derivative bottoms fraction, and recovering a secondary alkylbenzene overhead fraction having a reduced phenol derivative concentration substantially equivalent to that in azeotropic mixture with said saturation water.

(Complete specification 13 pages) (Drawing 1 sheet).

Class : 32C.

158471

Int. Class : C07G 17/00.

"PROCESS FOR THE PREPARATION OF DIOSGENIN HORSE RADDISH PEROXIDASE CONJUGATES FOR USE IN THE DETERMINATION OF DIOSGENIN IN PLANT MATERIAL".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : MANJU SARKAR AND SHASHI BHUSAN MAJIATO.

Application for Patent No. 563/DFL/1982 filed on 24th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

A process for the preparation of diosgenin horse raddish peroxidase conjugate for use in the determination of diosgenin in a plant material comprising the steps (a) preparation of diosgenin hemisuccinate or like dicarboxylic acid derivatives by reacting the dicarboxylic acid anhydride with diosgenin in the presence of an organic liquid base, (b) treating the dicarboxylic acid derivative formed with horse raddish peroxidase to obtain the conjugate thereof.

(Complete Specification 9 Pages Drawing one sheet).

Class : 189.

158472

Int. Class : A61k 7/00.

"STABLE DENTIFRICE COMPOSITION".

Applicant : COLGATE-POLMOLIVE COMPANY, of 30 Park Avenue, New York, New York-10022, United States of America, a corporation organized under the laws of the State of Delaware, U.S.A.

Inventor : EDWARD EIGEN AND DINA ILONA BRACHMAN.

Application for Patent No. 631/DEL/1982 filed on 20th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(11 Claims)

A stable dentifrice composition comprising a dentifrice vehicle of the kind such as herein described composed of water and/or a humectant of the kind such as herein described in combination with a thickening or gelling agent of the kind such as herein described and, as the essential dental abrasive, less than 40% ground rice hulls the particles of which pass a 200 mesh sieve.

(Complete Specification 24 Pages).

Class : 123 [I (4)].

158473

Int. Class : C 05 c 13/00.

"IMPROVED FERTILISER COMPOSITION FOR PROVIDING A CONTROLLED SUPPLY OF NITROGEN VALUES TO THE SOIL AND PROCESS FOR THE PREPARATION THEREOF".

Applicant : MELAMINE CHEMICALS, INC., a corporation organized under the laws of the State of Delaware, U.S.A., having its principal place of business at P.O. Box 748, Donaldsonville, Louisiana 70346, United States of America.

Inventor : GEORGE GRAHAM ALLAN, DONALD ERNEST FREEPONS & GEORGE McNENY CREWS.

Application for Patent No. 672/Del/1982 filed on 3rd September 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

(35 Claims)

An improved fertiliser composition having the necessary strength, size and weight for mechanical dispensing and application to the soil for providing a controlled supply of nitrogen values thereto which comprises the combination of a particulate nitrogen source having poor solubility in pH 7 water at 20°C, said source being selected from the group consisting of melamine, ammeline, ammelide, cyanuric acid, their inorganic or organic salts and mixtures of any of them and at least an effective amount based on the weight of said particulate nitrogen source of a binder such as herein described for the particles of said particulate nitrogen source.

(Complete Specification 30 Pages).

Class : 98E &amp; 182C.

158474

(10 Claims)

Int. Class : C13G 1/02.

**"A HEATER FOR REHEATING OF THE MASSE-CUITE".**

Applicant : BHUSHAN LAL MITTAL OF 12 AVAS VIKAS, CIVIL LINES, MORADABAD-244001, INDIA, AN INDIAN NATIONAL.

Inventor : BHUSHAN LAL MITTAL.

Application for Patent No. 709/DEL/1982 filed on 16th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

**(3 Claims)**

A heater for reheating of massecuite comprising a chamber having a plurality of pipes for the flow of a heating medium disposed therein with the inlet end of said pipes being connected to an inlet header and the outlet end of the said pipes being connected to an outlet header, characterized in that said inlet and outlet header consisting of a plurality of passes, said chamber also divided into a plurality of passes for the flow of the massecuite.

(Complete Specification 7 Pages Drawing one sheet).

Class : 32E.

158475

Int. Class : C08f 25/00 &amp; 43/00.

**"A PROCESS FOR THE PREPARATION OF GRAFT COPOLYMERS OF STYRENE AND METHYLMETHACRYLATE".**

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH 19, University Road, Delhi-110007, India, an Indian Institute.

Inventor : JAI KRISHNA NIGAM, PREM KUMAR MAIR, GEETA UNIKRISHNAN AND DATTAPRASAD ACHYUT DABHOLKAR.

Application for Patent No. 740/DEL/1982 filed on 7th October 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

**(4 Claims)**

A process for the preparation of graft copolymers of styrene and methylmethacrylate characterized in mixing a reaction mixture consisting of styrene, methylmethacrylate and acactic polypropylene, polymerizing the reaction mixture by adding an initiator, such as benzoyl peroxide, lauryl peroxide or dicumyl peroxide and heating at 60 to 150°C for less than ten hours and more than two hours.

(Complete Specification 7 Pages).

Class : 32E.

158476

Int. Class : C 08f 3/00.

**"A PROCESS FOR THE PREPARATION OF POLYMERS OF VINYL AROMATIC COMPOUNDS".**

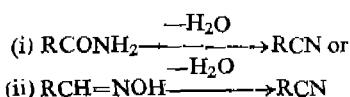
Appropriate office for opposition proceedings (Rule 4, RESEARCH, 19, UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : JAI KRISHNA NIGAM, PREM KUMAR MAIR, GEETA UNIKRISHNAN AND DATTAPRASAD ACHYUT DABHOLKAR.

Application for Patent No. 741/DEL/1982 filed on 8th October 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

A process for the polymerization of vinyl aromatic compounds which consists in subjecting the elastomer and aromatic vinyl compound to the known first and second steps of polymerization in the presence of a catalyst consisting of an organic peroxide compound having a group capable of producing cyano compound by the thermal decomposition or dehydration, such group being for example :



and where R is an alkyl.

(Complete Specification 8 Pages).

Class : 69A.

158477

Int. Class : H 01 h 5/06, 71/00, H 02 h 3/00, 7. 00.

**"CIRCUIT BREAKER".**

Applicant : ALSTHOM-ATLANTIQUE, A FRENCH COMPANY OF 38 AVENUE KLEBER, 75794 PARIS, CEDEX 16, FRANCE.

Inventor : JEAN-PAUL MONCORGE, LUCIEN ORGERET, GERARD EBERSOHL, RENE VALANCOGNE.

Application for Patent No. 802/DEL/1982 filed on 3rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**(2 Claims)**

A circuit breaker provided with a device for controlling a disconnection and re-connection cycle in a said circuit breaker and with a plurality of energising means for successively operating said cycle, each said energising means being connected to an actuating circuit comprising an actuator winding connected between a capacitor and a control switch, said actuating circuit being adapted to store electrical energy in said capacitor and to discharge said energy therefrom thus causing electrical current to flow through said winding and actuate said energising means; said device comprising a capacitor-charging circuit fed with current from a power source and responsive to fault currents issuing therefrom, said capacitor-charging circuit comprising two or more current transformers connected in series with voltage transformers, secondary windings of such voltage transformers being connected to the capacitors of each of said actuating circuits so as to charge said capacitors with electrical energy derived from said fault current and an overcurrent relay circuit comprising an overcurrent relay responsive to excess current from said power source and provided with a plurality of outputs connected to said control switches of each said actuating circuit, said fault current and an overcurrent relay circuit comprising five of excess current sequentially through its outputs to said switches to cause said controlled switches sequentially to discharge the capacitors to which they are connected in said actuating circuits and thereby actuate said energising means which in turn causes said disconnection and reconnection cycle of the circuit breaker to operate.

Compl. Specn. 10 pages.

Drg. 2 sheets.

Class : 201.

158478

Int. Class : C12b 1/00.

**"A SYSTEM FOR PRODUCING POWER EMPLOYING HOT FLUID".**

Applicant : BIPHASE ENERGY SYSTEMS, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 2800 AIRPORT BOULEVARD, SANTA MONICA, CALIFORNIA 90405, UNITED STATES OF AMERICA.

Inventor(s) : WILLIAM EDGAR AMEND.

Walter Richard Stuhlter.

Application for Patent No. 817/DEL/79 filed on 15th November 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

(9 Claims)

A system for producing power employing hot fluid, preferably waste hot fluid, characterised by first heat transfer means for receiving the hot fluid and a liquid for transfer of heat from the hot fluid to the liquid, nozzle means connected to receive heated liquid from said first heat transfer means for flow through the nozzle means for expansion of the liquid to form a fluid jet or jets of liquid droplets in a gaseous phase rotary separator means located so as to be rotated by the fluid jet or jets for separating the liquid droplets from the gaseous phase and for producing a layer or layers of liquid from the liquid droplets on, and rotating with, the rotary separator means, and turbine means communicating with said separator means to receive liquid from the layer or layers of liquid produced on, and rotating with, the rotary separator means, to drive the turbine means.

(Complete specification 19 pages) Drawing 4 sheets.

CLASS : 35 B & C.

158479

Int. Cl. : C04b 7/00.

"A PROCESS FOR PRODUCTION OF A CEMENTITIOUS PRODUCT".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, of Imperial Chemical House, Millbank, London SW1P 3JF, England, a British Company.

Inventors : JAMES DEREK BIRCHALL, ANTHONY JAMES HOWARD, KEVIN KENDALL AND JAMES HUGH RAISBICK.

Application for patent No. 766/Del/81 filed on 4th December, 1981.

Convention date 22nd December, 1980/8041640/U.K.) & 27th July, 1981/8123103/U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

18 Claims

A process for production of a cementitious product by setting of a cementitious composition comprising;

- (a) at least one hydraulic cement,
- (b) water in a proportion of not more than 25% by weight of the composition, and
- (c) at least one water soluble or water dispersible organic polymer or copolymer in a proportion of 1 to 15% weight of the hydraulic cement in the composition,

Characterised in that the hydraulic cement and the polymer or copolymer are selected such that a test composition comprising 100 parts by weight of hydraulic cement, 5 parts by weight of the polymer or co-polymer, and 16 parts by weight of water when extruded in a capillary rheometer undergoes an increase of at least 25% in shear stress when a tenfold increase in the shear rate of the test composition is effected when the shear rates as measured are within the range 0.1 to 5 second  $^{-1}$ .

(Complete specification 37 pages) Drawing 1 sheet).

CLASS : 32E.

158480

Int. Cl. : C08f 15/04.

"A process for the production of a copolymer of propylene and ethylene".

Applicant : EL PASO POLYOLEFINS COMPANY, of W. 115 Century Road, Paramus, New Jersey 07652, United States of America a corporation organized under the laws of the State of Delaware.

Inventor : BIRENDRA KUMAR PATNAIK.

Application for patent No. 783/Del/81 filed on 15th December, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

17 Claims

A process for the production of a copolymer of propylene and ethylene wherein the polymerization of propylene and ethylene is conducted at pressures sufficient to maintain propylene in liquid phase and at temperatures between 115°F and 165°F in the presence of a catalyst composition containing the components :

- (a) an aluminum trialkyl at least partially complexed with an aromatic carboxylic acid ester electron donor and;
- (b) a complex of a titanium tri- or tetra halide with an aromatic carboxylic acid ester electron donor supported on magnesium halide;

the components (a) and (b) being provided in a molar ratio of Al/Ti between 10 and 400, the improvement which comprises : adding from 0.5 to 15 per cent by weight of butene-1 based on the weight of propylene feed to the polymerization zone.

(Complete specification 10 pages).

CLASS : 69 D.

158481

Int. Cl. : H01h 3/02.

"ELECTRICAL APPARATUS, PARTICULARLY A RELAY OR A SMALL-SIZE CONTACTOR".

Applicant : LA TELEMECANIQUE ELECTRIQUE, of 33 Bis Avenue due Marechal Joffre, 92000 Nanterre, France, a French company.

Inventors : JEAN-MICHEL LESOUS AND GERARD LERUDE.

Application for Patent No. 703/DEL/1982 filed on 13th September 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An electrical apparatus, particularly a relay or small-size contactor, comprising a hollow, prism-shaped casing adapted to accommodate an electrical device e.g. switching means or electromagnetic contacts and having a rectangular opening in a lower area thereof opposite to connection terminals, said opening being closed by a generally rectangularly-shaped removable bottom which is provided with fastening means adapted to cooperate with holding means on said casing and with removable hooking means which are disposed externally and are adapted to cooperate with a pair of parallel flanges of a fixed, shaped metal rail or section, characterized in that said bottom (5) is made from a thermoplastic material and has a pair of opposite side flanges (8, 9) of width (a) less than the distance (b) between a pair of first opposite side walls (53, 54 and 55, 56, respectively) of said casing (30), which is also made from a thermoplastic material, towards which they extend, each of said flanges being provided with a pair of resilient hoops (13, 14 and 15, 16, respectively) which are connected with each other by a connecting strip (17 and 18, respectively) extending in a plane (R) parallel to the plane in which said flanges extend, and each of said connecting strips being provided with a first hooking hook (19 and 20, respectively) adapted to cooperate with each of said flanges (23 and 24, respectively) of said shaped rail (2), said bottom being further provided with second or fastening

hooks (27, 28, 29 adapted to cooperate with flanges) (25, 26 and 61, 62, respectively) in opposite lower areas (57, 58) of a second pair of side walls (53, 54) of said casing, which extend in a direction orthogonal to said walls.

(Complete specification 12 pages) (Drawing 2 sheets)

CLASS : 14A<sub>2</sub>. 158482  
Int. Cl. : H01m 35/00.

**"NONAQUEOUS CELL HAVING A MnO<sub>2</sub>/POLY-CARBON FLUORIDE CATHODE".**

Applicant : UNION CARBIDE CORPORATION, manufacturers, a Corporation organized under the laws of the State of New York, U.S.A., located at 270 Park Avenue, New York, State of New York, 10017, United States of America.

Inventor : VIOLETA ZILIONIS LEGER.

Application for Patent No. 544/DEL/1981 filed on 25th August, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**6 Claims**

A monaqueous cell comprising an anode, an electrolyte solution of the kind such as herein described an a cathode, said cathode comprising manganese dioxide having a water content of less than 1 weight per cent based on the weight of the manganese dioxide; the improvement wherein a poly-carbon fluoride of the kind such as herein described is added to the manganese dioxide cathode and has the formula (CyFx)<sub>n</sub> wherein y is 1 or 2 and x is greater than 0 up to 1.1, and n refers to the number of monomer units which can vary widely.

(Complete Specification 16 Pages Drawing 2 sheets).

CLASS : 88 E and 6 B<sub>2</sub>. 158483  
Int. Cl. : C 101 3/00.

**"METHOD OF PREPARING BIO-GAS AIR MIXTURE AND A BIO-GAS AIR MIXTURE."**

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, an Indian Company of 18-20 Kasturba Gandhi Marg, Ansal Bhawan, New Delhi-110001, India.

Inventors : KRISHNAN THIRUMALAI AND MINUSAMY CHITTIBABU SURIYAPRAKASH.

Application for Patent No. 363/DEL/82 filed on 17th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**10 Claims**

A method for preparing a bio-gas air mixture which comprises admixing a stream of bio-gas with a stream of air characterized in that the stream of bio-gas is admitted at an angle of 25° to 90° to the said stream of air in a ratio of bio-gas air 1 : 9 by volume and wherein the flow path of the mixture of bio-gas and air is prolonged such that the residence time of the gas mixture is also prolonged for ensuring an effective blend of the air and the bio-gas.

(Complete Specification 10 Pages. Drawing one sheet)

CLASS : 47C.

158484

Int. Cl. : E 21C 43/00.

**"PROCESS AND APPARATUS FOR THE PRODUCTION OF FUEL GAS BY THE UNDERGROUND GASIFICATION OF COAL".**

Applicant : L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, OF 75 QUAI D'ORSAY, 75007 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventor : MAURICE GRENIER.

Application for Patent No. 373/DEL/1982 filed on 18th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**13 Claims**

A process for the production of fuel gas by the underground gasification of coal which comprises directing a gaseous stream of gasifying agent of the kind such as herein described at an underground coal seam to generate through the incomplete combustion of said coal a fuel gas, providing at least one annular sheath of protective fluid about said gaseous stream of gasifying agent in order to prevent reaction of the gasifying agent with the fuel gas it generates and withdrawing to the surface said generated fuel gas about said annular sheath of protective fluid so that withdrawal of said fuel gas is effected counter currently to the flow of gasifying agent and protective fluid.

(Complete Specification 12 Pages Drawing 3 sheets).

CLASS : 47 C

158485

Int. Cl. : F 23b 7/00.

**"PROCESS FOR MANUFACTURING FUEL GAS OR SYNTHESIS GAS BY PARTIALLY COMBUSTING CARBONACEOUS FUEL."**

Applicant : BOLIDEN AKTIEBOLAG, OF STUREGATAN 22, BOX 5508, S-114 85 STOCKHOLM, SWEDEN A SWEDISH COMPANY.

Inventors : CARL-JOHAN SIGVARD HELLESTAM & HANS IVAR ELVANDER.

Application for Patent No. 379/DEL/1982 filed on 19th May 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**9 Claims**

A method for manufacturing fuel gas or synthesis gas by partially combusting carbonaceous fuel of the kind such as herein described, said carbonaceous fuel preferably having a high content of noncombustible constituents, said process comprising injecting solid fuel in a finally divided form into a shaft like reactor chamber and partially combusting said fuel during movement down through said chamber to form a fuel gas or synthesis gas during melting of the non-combustible constituents of the fuel, and removing the melt formed from the bottom part of the reactor chamber, said process characterized by maintaining said reactor chamber at a temperature for instantaneously melting the non-combustible constituents of the fuel, injecting fuel and oxygen mixture or fuel and oxygen-enriched air mixture through nozzles located at the upper part of the reactor chamber and directed obliquely downwardly and tangentially to imaginary horizontal circles having a diameter which is smaller than the smallest cross-sectional dimensions of the reactor chamber to cause at least a substantial part of the fuel gas mixture, during its passage downwards in a helical part along the wall of said reactor chamber, to be brought into contact with said wall

along substantially the whole height thereof, said contact of said fuel gas-mixture with said wall resulting in the formation of a molten slag layer flowing down along said wall to the bottom part of the reactor chamber, cooling the wall of the reactor chamber for maintaining thereon, between said wall and said molten slag layer, a frozen coating formed by non-combustible constituents of the fuel, causing said gas to turn at the bottom portion of the reactor chamber and pass upwardly in the centre portion of the reactor chamber, and removing the upwardly flowing gas through the top of the reactor chamber.

(Complete Specifications 19 Pages) (Drawings one sheet)

CLASS : 178. 158486  
Int. Cl. : B28d 1/12.

#### "SAWING MACHINE FOR STONE BLOCKS".

Applicant : NORTON INTERNATIONAL, INC., OF 1 NEW BOND STREET, WORCESTER, MASSACHUSETTS 01606, UNITED STATES OF AMERICA.

Inventor : LAUGA GILLES.

Application for Patent No. 402/DEL/1982 filed on 27th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

A machine for sawing stone blocks comprising :

a frame mounted to pivot about horizontal axis symmetrical with regard to a vertical plane perpendicular to said horizontal axis,

saw blades the cutting edge of each of which, directed towards said horizontal pivot axis, is in the form of arc of a circle the centre of which coincides with said axis, said saw blades being fixed by their ends to securing members which are rigidly connected to said frame and which are provided with means to secure the extremities of the saw blades and to tension said blades.

means for moving said frame with an oscillating motion about said horizontal pivot axis, the longitudinal axis of the saw blades always forming an acute angle with regard to the vertical, transport means adapted for moving forward one or several stone blocks horizontally and in a direction parallel to the planes of the saw blades towards said blades, characterised in that frame carries two said saw blades disposed on either side thereof symmetrically and parallel to its symmetrical plane, the securing members being disposed in over-hanging relationship on either side of the frame, and that said transport means are located on either side of said frame and are provided with adjusting means adapted for adjusting the position of the stone blocks.

(Complete Specification 14 Pages Drawing one sheet).

CLASS : 56E & 84B. 158487  
Int. Cl. : C10L 1/00.

#### BAN IMPROVED MIDDLE DISTILLATE FUEL OIL COMPOSITION".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : ROBERT DRYDEN TACK, BRIAN WILLIAM DAVIES AND KENNETH LEWTAS.

Application for Patent No. 403/DEL/1982 filed on 27th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 8 Claims

An improved middle distillate fuel oil composition boiling in the range of 120°C-500°C, which comprises middle distillate fuel oil and 0.005 to 0.5 wt. % preferably 0.005 to 0.25 wt. % of a flow and filterability improver, said flow and filterability improver consisting essentially of :

- (a) in the range of 25 to 95 wt. % based on a total weight of flow improver of a  $C_{30}$ — $C_{300}$  oil-soluble nitrogen compound wax crystal growth inhibitor having at least one straight  $C_0$ — $C_{40}$  alkyl chain and being selected from the class consisting of amine salts and/or amides of aromatic or cycloaliphatic polycarboxylic acids or anhydrides thereof or the amide/amine salts of monoesters of said polycarboxylic acids, and
- (b) in the range of 75 to 5 wt. % of an ethylene-vinyl acetate copolymer having a vinyl acetate content of 10-40 wt. % and a number average molecular weight ( $M_n$ ) of 1000-30,000 and a degree of branching in the range of 1 to 20 alkyl methyl groups per 100 methylene groups as determined by Nuclear Magnetic Resonance ( $^1H$  NMR) spectroscopy.

(Complete Specification 26 Pages Drawing 9 sheets).

CLASS : 172 B. 158488

Int. Cl. : D 01d 5/08, 5/20.

#### "AN IMPROVED PROCESS FOR THE MANUFACTURE OF FINER DENIER POLYMERIC FILAMENT YARNS."

Applicant : KAILASH NATH MISRA, K-11, LAJPAT NAGAR, III, NEW DELHI—INDIAN NATIONAL.

Inventor : KAILASH NATH MISRA.

Application for Patent No. 411/DEL/1982 filed on 1st June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

An improved process for the manufacture of finer denier polymeric filament yarns for use in textiles by melt spinning process comprising melt spinning the polymeric material into yarns, stretching the yarns and winding them on beams or bobbins characterised in that a stretched untwisted yarn or stretched uncrimped tow or stretched filament sheet of denier heavier than that of the filament yarn desired to be prepared, is first produced by the melt spinning process which is then segregated into filament yarns of the desired finer denier and wound on beams or bobbins.

(Complete Specification 11 Pages Drawings Four sheets).

CLASS : 144 B & E<sub>3</sub>, 32-E 158489

Int. Cl. : 609k 3/00.

#### "A PROCESS FOR THE PREPARATION OF A COATING COMPOSITION FOR USE IN THE POLYMERIZATION OF OLEFINIC MONOMERS".

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : VED PRAKASH MALHOTRA, AMAR JIT SINGH & MINAKSHI GUPTA.

Application for patent No. 424/Del/82 filed on 3rd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for the preparation of a coating composition for use in the polymerization of electron monomers as herein described which comprises in adding an intermediate condensation product of pyrogallol as herein defined in a solvent characterized in that said solvent consists of a water solution containing an alkali, such as sodium hydroxide, and, wherein, the strength of the alkali is not less than 0.001 N and that at least 0.2% by weight of the condensation product is present therein.

(Complete specification 10 pages).

CLASS : 32F<sub>4</sub>(d). 158490

Int. Cl. : C07c 27/00, 45/00 & 131/00.

**"CONTINUOUS HYDROLYSIS OF KETOXIME".**

Applicant : ALLIED CORPORATION, OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTY, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : JOHN HENRY BONFIELD AND HARRY EDWARDS ULMER.

Application for Patent No. 472/DEL/1982 filed on 23rd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 11 Claims

A process for the continuous hydrolysis of a ketoxime which comprises the steps :

- (a) feeding to a fractional distillation column at an intermediate feedpoint a feed mixture comprising an aliphatic or cycloaliphatic ketoxime of 3-8 carbons and an inorganic acid which is not strongly oxidizing;
- (b) feeding steam to said column adjacent to the base of said column;
- (c) operating said column with sufficient steamfeed, sufficient effective plates between said feedpoint and the base of said column and sufficient reflux to hydrolyze said ketoxime in said column and form the ketone corresponding to said ketoxime and the hydroxylammonium salt of said inorganic acid;
- (d) recovering an overhead comprising said ketone; and
- (e) recovering as bottoms an aqueous solution comprising said hydroxylammonium salt.

(Complete Specification 20 Pages Drawing one sheet).

CLASS : 32F<sub>4</sub>(c). 158491

Int. Cl. : C07c 89/02 & 91/06.

**"AN IMPROVED PROCESS FOR THE PREPARATION OF N-ALKYLDIISOPROPANOLAMINES".**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : PRABHAKAR GANPAT NERLEKAR AND PRAMOD PRABHAKAR MOGHE.

Application for Patent No. 476/DEL/1982 filed on 25th June, 1982.

Complete specification left on 21st September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005,

## 4 Claims

An improved process for the preparation of N-alkyldiisopropanolamine wherein the alkyl radical contains 10-14 carbon atoms comprising reacting stoichiometric amounts of N-alkylamine and propylene oxide in the presence of alkali catalysts wherein the improvement comprises in using additionally 0.1 to 1.0 mole of water per mole of the amine as a catalyst promoter.

Complete Specification 11 page.

Drg. one sheet.)

**OPPOSITION PROCEEDINGS**

## (1)

An opposition entered by Amitron Engineering Pvt. Ltd., to the grant of a patent on application No. 151645 made by Hein Lehmann AG, as notified in the Gazette of India Part-III, Section 2, dated the 7th January, 1984 has been dismissed and ordered that a patent be sealed.

## (2)

An opposition has been entered by Scooters India Ltd., to the grant of a patent on application No. 151977 made by Jaya Hind Industries Ltd., as notified in the Gazette of India, Part-III, Section 2 dated the 10th March, 1984 has been dismissed and that the Patent shall be sealed.

## (3)

An opposition has been entered by M/s. Kinetic Engineering Limited, Pune to the grant of a patent on application for Patent No. 157582 made by M/s. Bajaj Auto Limited, Pune.

## (4)

An opposition has been entered by M/s. Piaggio and C SPA, Italy to the grant of a patent on application for Patent No. 157582 made by M/s. Bajaj Auto Limited, Pune.

## (5)

An opposition has been entered by M/s. Kinetic Honda Motor Limited, Pune to the grant of a patent on application for Patent No. 157587 made by M/s. Bajaj Auto Limited, Pune.

## (6)

An opposition has been entered by M/s. Piaggio & C. SPA, Italy to the grant of a patent on application for Patent No. 157587 made by M/s. Bajaj Auto Ltd., Pune.

**CLAIM UNDER SECTION 20(1) OF THE PATENTS**

**ACT, 1970**

The claim made by HUHTAMAKI OY under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 152747 in their name has been allowed.

**PATENTS SEALED**

145557 152747 154739 154896 155457 155476 155551 155921  
156014 156095 156102 156278 156296 156309 156315 156318  
156335 156338 156339 156348 156349 156351 156380 156392  
156393 156402 156409 156410 156416 156417 156419 156420  
156450 156509 156528 156532 156533

**AMENDMENT PROCEEDINGS UNDER SECTION 57**

The amendment proposed by Metallgesellschaft A.G., in respect of Patent application No. 154428 as advertised in Part III, Section 2 of the Gazette of India dated the 8th February, 1986 has been allowed.

**RENEWAL FEES PAID**

137289 137581 137654 137686 138115 138116 139271 139626  
139634 139656 140349 140457 140550 140688 140854 140950  
140961 141096 141133 141540 141772 141782 141874 142000  
142429 142433 142621 142668 142698 142700 142995 142999

143088 143157 143194 143209 143259 143444 143569 143619  
 143637 143712 143807 144067 144073 144213 144472 144550  
 144551 144647 144807 144876 144939 145094 145128 145380  
 145588 145726 145948 146122 146170 146200 146294 146414  
 146498 146499 146540 146622 146663 146755 146854 146911  
 147013 147035 147262 147390 147416 147662 147667 147740  
 147783 148059 148164 148378 148385 148567 148670 148703  
 148761 148817 148818 148880 148933 148934 148962 149019  
 149110 149212 149213 149225 149242 149280 149318 149324  
 149382 149410 149579 149619 149694 149824 149881 149884  
 149961 150035 150088 150158 150163 150168 150171 150213  
 150517 150680 150684 150685 150701 150729 150869 150957  
 151015 151023 151025 151083 151084 151141 151156 151168  
 151218 151231 151274 151307 151330 151348 151372 151624  
 151653 151657 151740 151768 151924 151932 152022 152157  
 152167 152184 152259 152263 152336 152446 152472 152605  
 152715 152726 152737 152802 152856 152860 152999 153001  
 153003 153006 153039 153056 153118 153119 153134 153140  
 153146 153184 153186 153187 153188 153191 153193 153223  
 153226 153230 153276 153289 153380 153401 153424 153425  
 153432 153433 153451 153465 153556 153692 153694 153713  
 153726 153847 153944 153990 153991 154193 154238 154261  
 154312 154368 154410 154413 154418 154448 154549 154561  
 154565 154570 154571 154577 154612 154686 154687 154701  
 154718 154720 154723 154724 154725 154740 154804 154847  
 154851 154924 155028 155144 155173 155224 155237 155252  
 155303 15304 155308 155325 155375 155382 155385 155444  
 155445 155459 155552 155562 155583 155584 155585 155604  
 155610 155641 155654 155707 155708 155709 155710 155761  
 155763 155756 155769 155957 155984 156005 156016 156017  
 156022 156065 156107 156110 156166 156199 156246 156247  
 156258 156283 156298 157180

#### RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 149414 dated the 6th October, 1978 made by Suresh Jain on the 23rd September, 1985 and notified in the Gazette of India, Part III, Section 2 dated the 28th December, 1985 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 150700 dated the 16th October, 1978 made by Phillips Petroleum Company on the 17th March, 1986 and notified in the Gazette of India, Part III, Section 2 dated the 19th July, 1986 has been allowed and the said patent restored.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class I. No. 157105. Smt. Manjulaben Pranjivandas Kansara, an Indian National, of Patel Chawl, M.G. Road, Vile Parle (East), Bombay-400057, Maharashtra State, India. "Horse-shoe shaped Bar Set consisting of Bottle Opener, Peg measure, spoon and icestog all hanging on a horse-shoe shaped stand". 2nd June, 1986.

- Class. I. No. 156898. Harsora Brothers, Dr. Hakim Wadi, Near Super Cinema, Giant Road, Bombay-400001, Maharashtra State, an Indian firm registered under the Indian Partnership Act. "Chairs". 1st April, 1986.
- Class. I. No. 156914. United States Surgical Corporation, of 150 Glover Avenue, Norwalk, Connecticut-06856, U.S.A., a corporation of the State of New York, U.S.A. "Cartridge For Surgical Fastener Applying apparatus". 7th April, 1986.
- Class. I. No. 156905 Emco Electricals Pvt. Ltd., an Indian Company, of 106, Industrial Area, Sion, Bombay-400022, Maharashtra State, India, "a Brake". 2nd April, 1986.
- Class. I. No. 156985. Filtec Research & Manufacturing Company, 2 Anant Apartments, Brahmain Society, Naupada, Thane-4006602, Maharashtra, India, an Indian Sole Proprietary Firm. "Pollution control Device". 23rd April, 1986.
- Class. I. No. 156951. Kapila Type Foundry, an Indian Proprietary Firm at Bamphishai Cuttack-9, Orissa, India. "Type Fonts". 11th April, 1986.
- Class. I. No. 156625. Bharat Industries, Sardar V. P. Road, Jauta Garden Chowk, Rajkot-360002, Gujarat State, India an Indian Partnership Firm. "Knife". 12th February, 1986.
- Class. I. Nos. 156594, 156595. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for bidi and the like". 5th February, 1986.
- Class. I. No. 156612. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for cigarette and the like". 7th February, 1986.
- Class. 3. No. 156915. United States Surgical Corporation, of 150 Glover Avenue, Norwalk, Connecticut-06856, U.S.A., a corporation of the State of New York, U.S.A. "Cartridge For Surgical Fastener Applying Apparatus". 7th April, 1986.
- Class. 3. Nos. 157093, 157094, 157095, 157096. Splendour presentation, C-23, Connaught Place, New Delhi-110001, India, an Indian Partnership concern. "Desk Folder". 27th May, 1986.
- Class. 3. No. 156913. Hynoup Food & Oil Industries Pvt. Ltd., an Indian registered Company, Vishal Chambers Near Dinesh Hall, Ahmedabad-380009, India. "Container". 4th April, 1986.
- Class. 3. No. 157038. Cosmic Marketing Services India Pvt. Ltd., 5, Anjali Apartments, Ramkrishna Mission Marg, 14B, Road, Khar, Bombay-400052, Maharashtra, India, a private limited company incorporated under the Indian Companies Act. "Road Mark". 8th May, 1986.
- Class. 3. No. 156957. Jan Ingemar Naslund, a Swedish Citizen of Vassvagen 21, S-141, 39, Huddinge, Sweden. a "Bag Clip". 15th April 1986.
- Class. 3. Nos. 157071, 157072. A. G. Thompson Proprietary Ltd., a Company incorporated under the laws of the State of Victoria, of 531 Nepean Highway, Brighton, in the State of Victoria, Commonwealth of Australia. "Ball". 19th May, 1986.
- Class. 3. Nos. 156991, 156992 Reckitt & Colman of India Ltd., of 41 Chowinghee Road, Calcutta-700041, West Bengal, India, an Indian Company. "Bottle". 28th April, 1986.

- Class. 3. Nos. 156889, 156890, 156891, 156892, Vivelon Cosmetics, Ajay Service Industrial Estate, Unit 421, 4th floor, Anjir Wadi, Mazgaon, Bombay-400010, State of Maharashtra, India. "A Cap". 1st April, 1986.
- Class. 3. Nos. 156940, 156941. Sony Kabushiki Kaisha (also trading as Sony Corporation), a Joint stock company organised under the laws of Japan, 7-35, Kitashingawa-6-Chome, Shinagawa-ku, Tokyo, Japan. "Magnetic Tape Cassette". 8th April, 1986.
- Class. 3. No. 156979. Geep Industrial Syndicate Limited, (formerly known as Geep Flashlight Industries Ltd.) Manufacturers, of 28, South Road, Allahabad, India, an Indian Company. A "Dry Cell Hand Torch". 23rd April, 1986.
- Class. 3. No. 156960. Kailash Chandra Soni Trading as Bittu International, C-2 Greater Kailash Part-I, New Delhi-110048, India. An Indian National. "Broom". 15th April, 1986.
- Class. 3. No. 156631. Excel Packaging, M. M. K. Building, 3rd floor, 245, Abdul Rehman Street, Bombay-400003, Maharashtra, India, an Indian Partnership Firm. "Radiator Fan". 12th February, 1986.
- Class. 3. Nos. 156596, 156597. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for bidi and the like". 5th February, 1986.
- Class. 3. No. 156613. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for cigarette and the like". 7th February, 1986.
- Class. 3. No. 156678. Lombards Private Limited, an Indian Company of Rahimtoola House, Homji Street, Fort, Bombay-400001, Maharashtra, India. "Jerry Can". 19th February, 1986.
- Class. 4. No. 157021. R. K. Plastic (India). Jamadar Gali, Pahari Dhiraj, Delhi-110006, an Indian Partnership concern. "Mirrors". 6th May, 1986.
- Class. 4. No. 156893. Vivelon Cosmetics, Ajay Service Industrial Estate, Unit 421, 4th Floor, Anjir Wadi, Mazgaon, Bombay-400010 State of Maharashtra, India. "a Bottle". 1st April, 1986.
- Class. 4. Nos. 156598, 156599. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps St John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for bidi and the like". 5th February, 1986.
- Class. 4. No. 156614. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps St John Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for cigarette and the like". 7th February, 1986.
- Class. 10. No. 156961. Bagaj Departmental Stores Pvt. Ltd., An Indian Company. 28-Dholpur House, M. G. Road, Aga, Uttar Pradesh, India. "Sole of Footwear". 15th April, 1986.
- Class. 12. No. 156887. Piatik Industries, Wadi, Near Jain Temple, Baroda-390017 State of Gujarat, India. "An Asbestos Gloves". 1st April, 1986.
- Class. 12. Nos. 156600, 156601. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for cigarette and the like". 7th February, 1986.
- Class. 12. No. 156615. John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. Baptist Road, Bandra, Bombay-400050, Maharashtra State, India. "Filter holder for bidi and the like". 5th February, 1986.
- Extension of Copyright for the second period of five years*  
 Nos. 150646, 150647, 150648, 150649, ..... Class-3.  
 Nos. 150703, 150704, 150705, 150706, ..... Class-3.  
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 Nos. 150889 150890, 150891, 150892. ..... Class-4

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